AMD Instinct MI455X vs NVIDIA GB200 Grace Blackwell Superchip 372GB

Side by side datacenter GPU specifications from the Flopper.io database.

OVERVIEW

	AMD Instinct MI455X	NVIDIA GB200 Grace Blackwell Superchip 372GB
FP32 TFLOPS	**315.0**	**160.0**
Memory	**432 GB**	**372 GB**
Memory Bandwidth	**23.3 TB/s**	**16.0 TB/s**
TDP	—	—

PERFORMANCE BY PRECISION

Precision	AMD Instinct MI455X peak TFLOPS (dense)	NVIDIA GB200 Grace Blackwell Superchip 372GB peak TFLOPS (dense)
FP64	5.0	80.0
FP32	315.0	160.0
TF32	—	2500.0
BF16	5033.0	5000.0
FP16	5033.0	5000.0
FP8	20133.0	10000.0
FP6	20133.0	10000.0
FP4	40265.0	20000.0
INT8	5033.0	10000.0

SPECIFICATIONS

	AMD Instinct MI455X	NVIDIA GB200 Grace Blackwell Superchip 372GB
Architecture	CDNA 5	Blackwell
Process Node	TSMC 2nm/3nm	4nm
Launch Year	2026	2024
Form Factor	EAM	Superchip
Memory Type	HBM4	HBM3e

	AMD Instinct MI455X	NVIDIA GB200 Grace Blackwell Superchip 372GB
Interface Width	–	–
Interconnect	–	NVLink-C2C
TDP	–	–
FP32 Efficiency	–	–